

Albert J Boettler <Albert.J.Boettler@USA.dupo nt.com>

02/14/2007 07:24 AM

To Frank.Faranca@dep.state.nj.us,
David.Doyle@dep.state.nj.us, Anne Pavelka
<Anne.Pavelka@dep.state.nj.us>, Barry

cc bcc

Subject Re: DuPont Status Meeting - Feb 20 at 10:00 am

History:

This message has been replied to.

Frank, Anne, Dave, Barry and Andy:

Here is the agenda for Tuesday's meeting at 10:00 am (401 7TH FL CONF ROOM. We have a full meeting. However, if you have any additions or changes, let me know.

Thanks, Al

Participants Scott Norcross Andrew Cohen Nancy Grosso Tom Ei Al Boettler

Introduction and Agenda (5 min)

Update on Status of ongoing site wide remedial strategy. Documents pending agencies review
DuPont 2007 priorities

- Salem Canal
- Delaware River GW SW
- Ground water optimization

SWMU 52 and Vault (10 min)

Current Activities (50 Min)

Del River GW-SW Investigation (w/ pictures)

- Purpose
- task

Salem Canal (w/ pictures)

- Purpose
- tasks

RFI

- Purpose
- task

SWMU 8

Surface Water Sampling

- Purpose
- tasks

CMS

- Purpose
- tasks

Eco Work Plan

- Purpose

- tasks

GW Recovery/Optimization

- Purpose
- tasks

SAB and University Contracts

- Purpose
- tasks

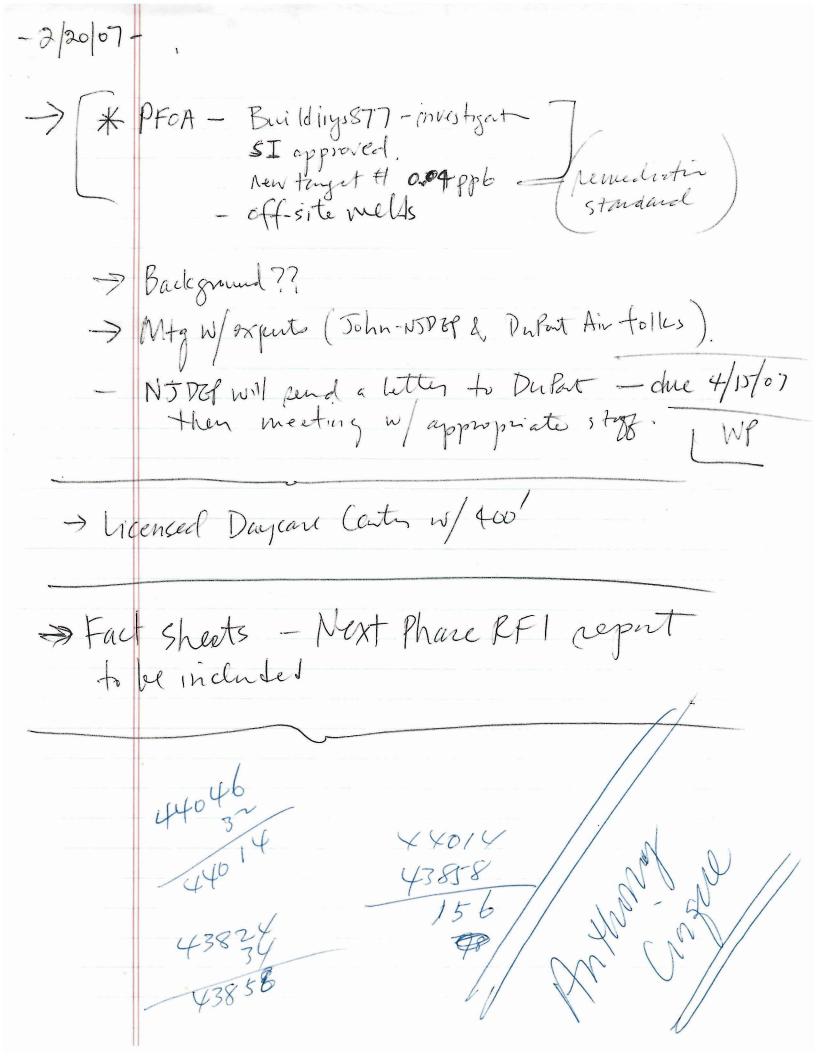
Preliminary Assessment Report (45 Min)

Other Items (10 min)

Next Meeting/Close: (5 Min)

This communication is for use by the intended recipient and contains information that may be Privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. Unless explicitly and conspicuously designated as "E-Contract Intended", this e-mail does not constitute a contract offer, a contract amendment, or an acceptance of a contract offer. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties.

Francais Deutsch Italiano Espanol Portugues Japanese Chinese Korean http://www.DuPont.com/corp/email_disclaimer.html





Andy Park/R2/USEPA/US 02/22/2007 10:33 AM

To Barry Tornick/R2/USEPA/US@EPA

cc Adolph Everett/R2/USEPA/US@EPA

bcc

Subject Re: DuPont (Deepwater) Highlight

<u>DuPont Chambers Works/Deepwater, NJ</u>: We attended a meeting with DuPont and NJDEP on February 20, 2007 for update of the facility corrective action. Ongoing remedial activities at the facility were updated including Delaware River groundwater-surface water interface, ecological investigation (primarily targeting the northern half (Carneys Point) of the facility), Salem Canal, SWMU 8 (landfills formerly and currently used), Phase IV RCRA Facility Investigation, groundwater pump and treat optimization, and activities and roles of the Science Advisory Board and University Research. DuPont would provide EPA and NJDEP expectedly in March through August 2007 with a number of reports relating to the above remedial activities. In addition, the Remedial Action Report for SWMU 52 (located adjacent to the Delaware River) whose remediation has been completed would be submitted to EPA and NJDEP expectedly in March 2007. DuPont has almost completed the activities for SWMU 8, corresponding to the RCRA Corrective Measures Study (expected in April 2007). It was agreed that the report would be entitled as CMS/Remedial Action Selection Report (RASR). NJDEP informed that they would issue an NOD to EPA, if necessary upon completion of review of the report.

In response to the requirements of NJDEP's Technical Rule, DuPont has completed a preliminary assessment of additional areas including the manufacturing and production areas, beyond the SWMUs required to be investigated under the federal RCRA Corrective Action permit. The assessment report was provided to EPA and NJDEP in January 2007. It provided the results of the assessment for 16 targeted areas ("Focus Areas") and recommended further investigation of 11 Areas of Concern (AOCs), primarily targeting the production areas in the southern half (Chambers Works) of the facility. The report appeared to be well prepared. Upon approval, next phase of the investigation for these AOCs would be an RCRA Facility Investigation.

NJDEP informed that, with the new "remediation standard" of 0.04 ppb in groundwater for PFOA (Perfluorooctanoic Acid), they would send a letter to DuPont requesting submission of a work plan for on-site and off-site investigations. NJDEP initially considered that DuPont needed to submit a work plan by April 15, 2007 but later agreed to a 90-day response time. However, DuPont was not sure of the need of the work plan at this time based on the detected levels near the DuPont facility as well as the elevated levels of PFOA detected as background for New Jersey (Passaic River as well as near the DuPont facility) and believed that any further investigation at this time is not warranted. It was agreed that NJDEP and DuPont experts relating to the issue need to meet and discuss the need for further investigation.

Barry Tornick/R2/USEPA/US



Barry Tornick/R2/USEPA/US

02/22/2007 08:05 AM

To Park.Andy@epamail.epa.gov@EPA

CC

Subject DuPont (Deepwater) Highlight

Please do a highlight this morning on the meeting.

r p r

, 1

-

40

n n n n n n n n n



Andy Park/R2/USEPA/US 02/22/2007 09:25 AM

To Andy Park/R2/USEPA/US@EPA

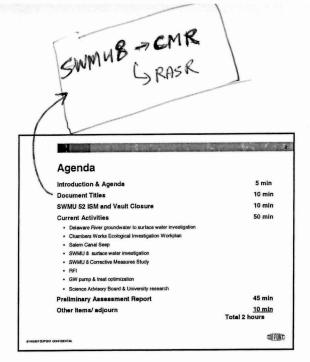
CC

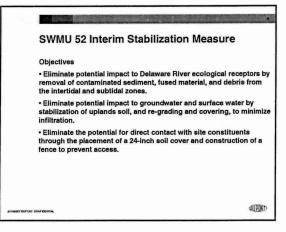
bcc

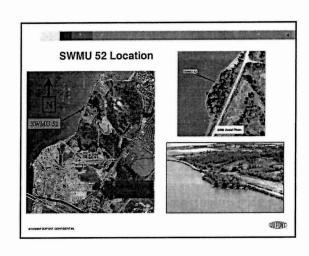
Subject DuPont, Deepwater - Summary of the 2/20/07 meeting with DuPont & NJDEP

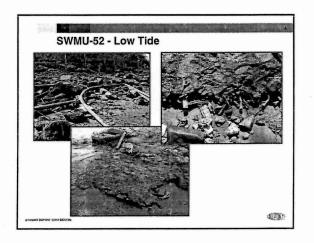
- <u>Document Title for SWMU 8</u> DuPont is about to complete the CMS for SWMU 8. It was generally agreed that it is to be called/entitled as CMS/RASR. NJDEP said that they would provide NOD, if necessary, to EPA. NJDEP indicated that they may have to issue multiple NODs.
- SWMU 52 RAR in March 2007.
- Ongoing activities:
- 1. Delaware River GW-Surface Water investigation Phase 1 and Phase 3 completed. Phase 2 (installing B well in intertidal zone) expected in March 2007.
- 2. Chambers Works Ecological Investigation Work plan submitted in February 2007.
- 3. Salem Canal Seep GW well installation scheduled for March 2007.
- 4. SWMU 8 Surface Water Investigation Report in March 2007
- 5. SWMU 8 CMS expected in April 2007.
- 6. Phase IV RFI supplemental report in August 2007. It was agreed that DuPont would provide fact sheets for all outstanding SWMUs/AOCs.
- 7. GW pump & treat optimization report in July 2007.
- 8. Science Advisory Board & University Research
- PFOA NJDEP newly promulgated 0.04 ppb as the GW remediation standard for PFOA. NJDEP would send a letter to DuPont requesting submission of a work plan for on-site (Building 877 and others...) and off-site investigations within 90 days. Due to elevated levels of PFOA detected in the background, any further investigation may not be warranted. It was agreed that NJDEP (John...) and DuPont Air experts may need to meet for further discussion concerning the need for further investigation.
- Concerning the Preliminary Assessment Report dated December 2006, 16 areas were reviewed including off-site areas. 11 AOCs were identified in the manufacturing areas primarily relating to dye production. RFI expected as follow-up.

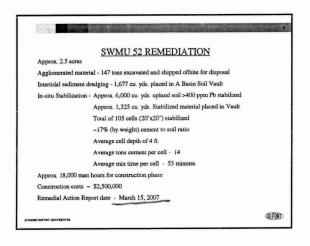


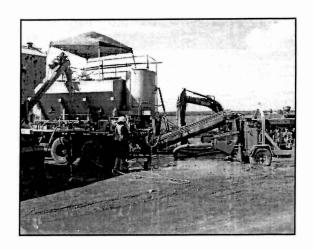




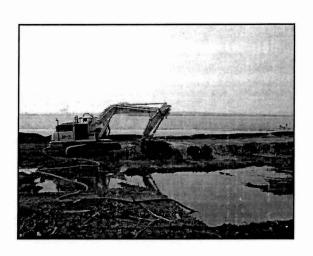


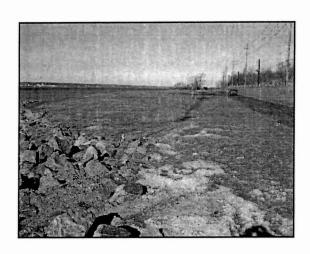


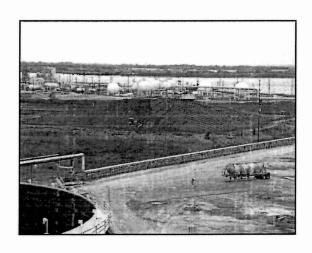






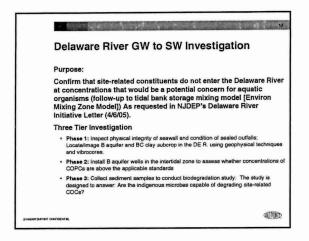


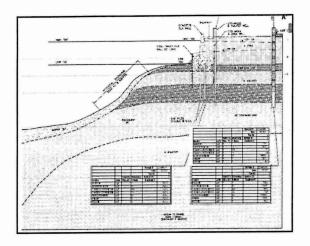


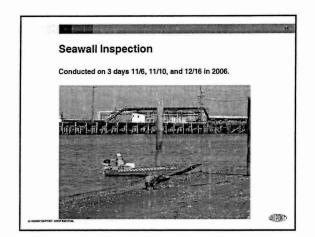


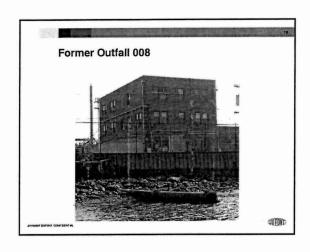
Current Activities Delaware River groundwater to surface water investigation Chambers Works ecological investigation Salem Canal Seep SWMU 8 surface water investigation SWMU 8 Corrective Measures Study RFI GW pump & treat optimization Science Advisory Board & university research

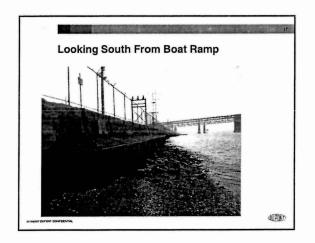
			•	/ B
				-

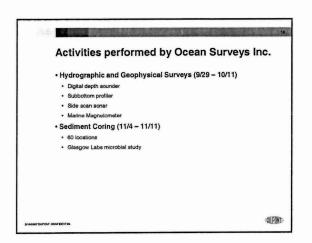




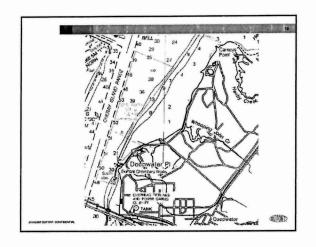


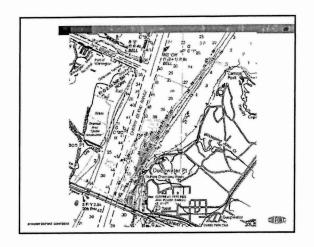


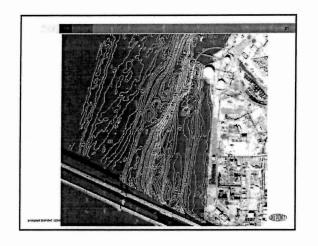


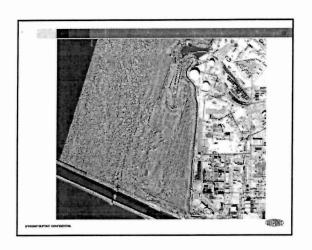


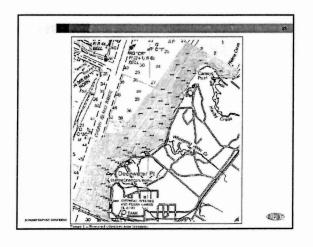
		à

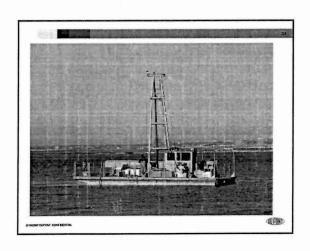












to reven additional .

Delaware River GW to SW Investigation Summary

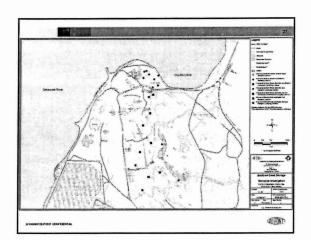
- Field activities for Phase 1 and Phase 3 complete
- · Evaluation of data ongoing
- · Selection of Phase 2 well locations expected in March

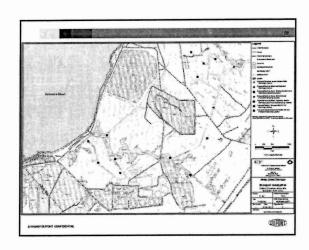
.....

OTHER)

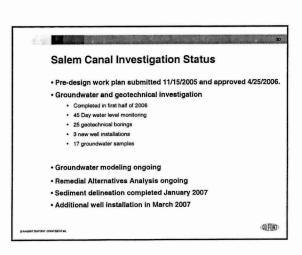
Ecological Investigation Workplan Purpose: To address recommendations in the revised BEE submitted 9/18/06. Workplan submitted 2/13/07 with the following objectives: Further characterize constituents of potential ecological concern (COPEC) migration pathways to environmentally sensitive areas (ESAs). Evaluate potential risk to sediment-dwelling invertebrate communities in Henby Creek and Bouttown Creek. Evaluate potential risk to fish, amphibian, and reptilian communities in Henby Creek and Bouttown Creek. Evaluate potential risk to wildlife the in Carneys Point area of the site. Conduct a waterfowl survey of B Basin and ponds in the southeast portion of the site.

DIFFIND



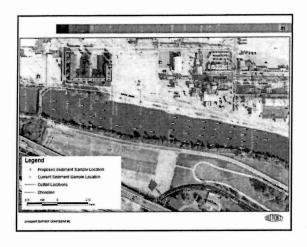


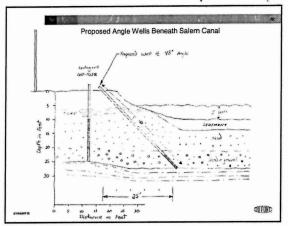
Proposed Investigation Schedule • March 2007: Waterfowl observation period for migratory birds • May 2007: Waterfowl observation period for nesting birds Ecological habitat characterization (GIS) • June 2007 Field sampling: • Sedimentsurface water • Benthic invertebrate community • PushPoint sampling • Aquatic habitat characterization • Report scheduled for December 2007 submission assuming agency approval of WP in March.



			x - y
			,

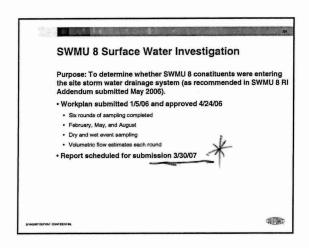
2/28/07 restallation

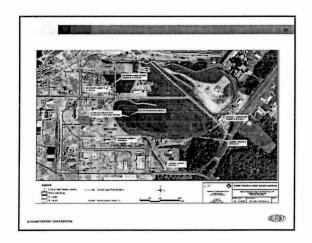


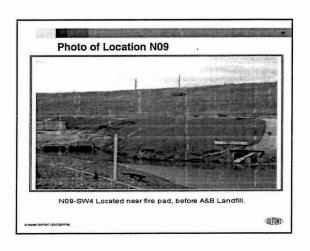


Salem Canal Investigation Summary

Groundwater field activities scheduled for completion in March 2007
Remedial Alternatives Analysis scheduled for completion in May 2007







SWMU 8 Corrective Measures Study

Purpose: Develop and evaluate corrective action alternatives and recommend corrective measures at SWMU 8 in accordance with RCRA guidance.

• SWMU 8 RI Addendum submitted in May 2006, no agency response

Constitution of the second state of the second

- Report concluded that SWMU 8 is stable, groundwater is controlled, and exposure potential is eliminated by IWS and engineering and institutional controls.
- Report recommended a RCRA CMS, as requested by NJDEP.
- SWMU 8 CMS currently scheduled for submission on 4/16/07.



RFI Phase IV Supplemental Investigation

Purpose: Complete investigation activities for the three remaining SWMUs.

Work Plan submitted 12/21/05, approved 4/17/06.

- SWMU 45-2: Evaluation of metals in shallow GW
- SWMU 48-2: Groundwater characterization
- SWMU 63: DNAPL delineation
- E Aquifer: Well abandonment and installation

Two final GW sampling rounds pending Q1 & Q2 2007.

Report scheduled for submission in August 2007.

Should complete the RFI for 63 original SWMUs.

CA 400 & 550 will be addressed through the implementation of long term site remed



Groundwater P&T Optimization Modeling

Purpose: Optimize the Interceptor Well System by minimizing the amount of pumping required (currently 1.5 MGD) to maintain GW containment.

- July 2006: Updated GW model completed by GeoTrans Inc.
- August December 2006: GW model calibration runs
- · January 2007: Initial optimization modeling

Report scheduled for submission in June 2007.



Science Advisory Board and University Research

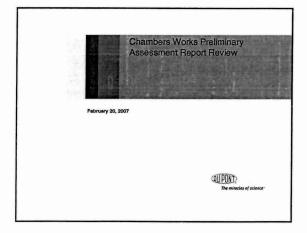
Science Advisory Board meetings in April and September 2006

- Donna Fennel/Rutgers
- · Lisa Axe/NJIT-Stevens
- John Cherry/Waterloop
- Jim Spain/Georgia Tech David Sabatini/OU

University Research at Chambers Works

- Princeton (P. Jaffe) Pollutant Dynamics In Wetlands Sedin
- Rutgers (D. Fennel) Aniline and PCA degradation
- NJIT (D. Watts) Sustainability Aspects of Remediation
- Cornell (S. Zinder) Chlorobenzene biodegradation





Overview

Objective: Consistent with Tech Regs, identify presence of potentially contaminated areas of concern inclusive of the entire Chambers Works Site. Goal: Further develop short and long term remedial strategy for the site.

Method: Use GIS, Site History Database, and retired employee interviews.

Large Team effort

- Individuals assigned to specific areas
 GIS professionals underpinned effort
 Experienced site personnel provided peer review where appropriate

Result: Potential Areas of Concern identified with recommendations for filling identified data gaps

OU PONT

Outline of Preliminary Assessment Report (PAR) Executive Summary Introduction Background and History Summary Executive Summary Executive Summary Executive Summary Introduction Executive Summary Exec

Site Wide Evaluation
 Summarizes Findings of detailed evaluations and presents proposed AOCs, Recommended Investigations, and Revised Site Conceptual Model

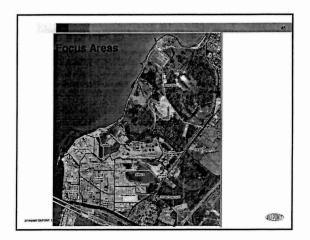
5-20 Focus Area Evaluations

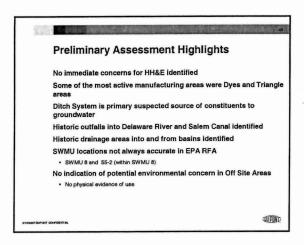
- · 16 Focus Areas
- · Includes off site areas
- 20 Conclusions and Recommendations
- 21 References

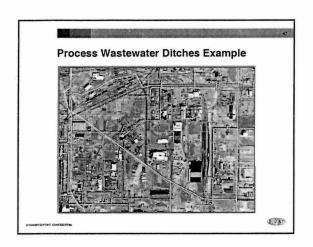
WARRISH PARKET FOR DEM



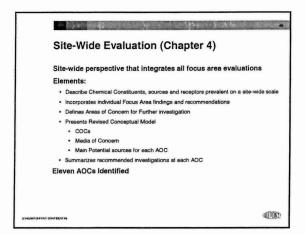
Approach Developed GIS and Environmental Database (presented to agencies, August 2006) Subdivided Site into Focus Areas Defined indicator chemicals based on manufacturing/waste disposal information, existing analytical (illustrative purposes to manage size, all data evaluated/included) Developed CSM of potential migration pathways for data analysis Integrated process history, analytical data, and spatial data (air photo/site maps) into CSM to assess potential sources and receptors ("Pathway analysis") Identified potential source areas and migration pathways Based on above, revised conceptual model on site-wide scale

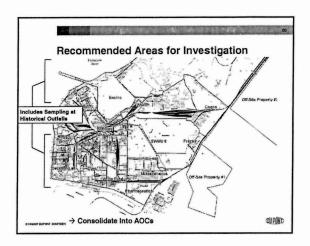


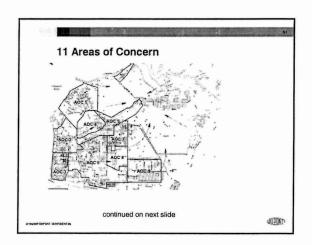


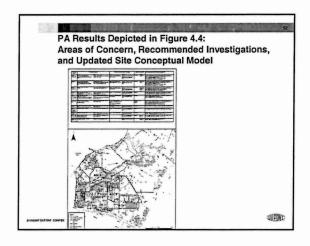


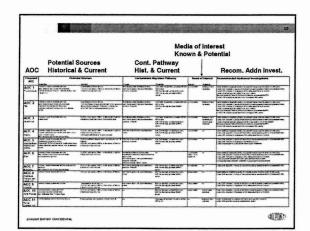


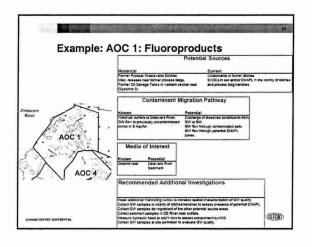




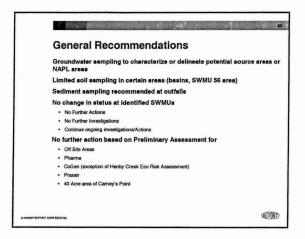


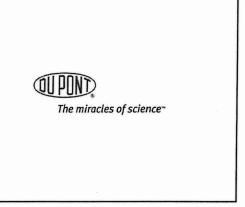






		3 * *
		-





			÷	